

LOCKHEED AIRCRAFT CORP.		ENGINEERING STUDY <input type="checkbox"/>	1AC - 114-1 *	
DATE 11-8-61		AFFECTS: WSPO <input type="checkbox"/>	PROJECT <input checked="" type="checkbox"/>	
NAME OF MAJOR COMPONENT AIRPLANE		PART OR LOWEST SUBASSEMBLY		PART NO. & MODEL OR TYPE
TITLE OF PROPOSAL : ADDITION OF VOR CAPABILITY				
NATURE OF PROPOSAL: SEE SHEET 2				

* REVISED TO DELETE ARTICLES 342, 343, 344 FROM THIS PROPOSAL.

REASON FOR PROPOSAL : TO PROVIDE IN 4 AIRCRAFT ADDITIONAL NAVIGATIONAL CAPABILITY, PER CUSTOMER REQUEST, BY INSTALLATION OF ARC-15F (CRYSTAL CONTROLLED) VOR, AND ACCOMPLISH A WEIGHT SAVING AND PROVIDE SPACE BY REPLACING EXISTING AN/ARN-6 ADF WITH AN/ARN-59 ADF IN 4 AIRCRAFT. (NOTE: INSTALLATION OF AN/ARN-59 HAS BEEN AUTHORIZED ON A/C SERIAL 342, 343, AND 344; REFERENCE LAC ECP-99.

CONTAINS SENSITIVE

COMINT INFORMATION

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ES	ESTIMATED COST AND TIME INVOLVED :		DOCUMENT NO. <u>150</u>
	ADDITIONAL FUNDING REQUIRED :		NO CHANGE IN CLASS. <input type="checkbox"/>
CP	ESTIMATED COST FOR KITS OR PARTS :		CLASS. CHANGE <u>150</u> IS <u>2011</u>
	ADDITIONAL FUNDING REQUIRED :		NEXT REVIEW DATE <u>30 Aug 81</u> REVIEW & R. <u>150</u>

ITEMS AFFECTED BY PROPOSAL :

SAFETY <input type="checkbox"/>	MISSION EFFECTIVENESS <input checked="" type="checkbox"/>	PERFORMANCE <input type="checkbox"/>	OPERATING PROCEDURE <input checked="" type="checkbox"/>	INTER-CHANGEABILITY <input type="checkbox"/>	WEIGHT OR. WEIGHT & BALANCE <input checked="" type="checkbox"/>	TOOLS & SUPPORT EQUIPMENT <input checked="" type="checkbox"/>	MAINTENANCE PROCEDURE <input checked="" type="checkbox"/>	SERVICE LIFE <input type="checkbox"/>	FLIGHT MANUAL <input checked="" type="checkbox"/>	MAINTENANCE MANUAL <input checked="" type="checkbox"/>
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EST. MAN/HRS. REQ'D. TO ACCOMPLISH CHANGE IN FIELD

SOURCE OF PARTS FOR KIT <u>LAC</u>	AVAILABILITY _____ WEEKS AFTER APPROVAL <u>SEE PAGE 3</u>
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DISPOSITION OF SPARES AFFECTED

TO BE DETERMINED BY WRAMA

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INITIATED BY : PROJECT	APPROVED : WSRQ - PROJEC
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NATURE OF PROPOSAL

Note: Four aircraft (352, 355, 358 and 378) will be modified by addition of VOR and by replacement of the ARN-6 with the ARN-59 ADF system. This configuration allows a weight savings of 6 pounds.

1. The ADF Loop and VOR Antenna will be housed in an all plastic nose, eliminating the need for an external VHF antenna.

ARC-157

The AN/ARN-30 VOR Receiver and ARC type B-18A RMI Converter will be installed in the nose area forward of the 618T-3 transceiver pressure box. This area is presently designated as "alternate" provisions for system VI [redacted] Power Supply". The bracketry will be such to allow convenient installation of either the VOR units or the System VI units, but not simultaneously.

2. The ADF and VOR controls will be located on the R.H. side console. Mark III hand controls will be required. The contractor understands that the subject aircraft are equipped with these controls. If not, aircraft with other than Mark III controls must be modified by installation of Mark III controls.
3. The stand-by compass will be relocated to the right hand upper area of the center instrument panel. The VOR indicator will be installed in the area presently occupied by the stand-by compass.
4. The sense antenna will be reworked to provide improved operation, as determined by previous flights on FOG aircraft.
5. Prepare and issue a Service Bulletin and manufacture the necessary kits.

NOTE: 1. Due to "tight" scheduling, the installation of the VOR system cannot be done at the factory during time of conversion.

2. Due to complexity of this change, it is recommended that this modification be accomplished at the factory at a later date.

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